	CRF Pors Corrected by the STIC System Bran	cessing Date.	7/19/02
irial h	lumber: 091393, 1111 Edied by	:	(STIC sta
]	Changed a file from non-ASCII to ASCII	7. 	(511C Sta
] .	Changed the margins in cases where the sequence text was "wrapped"	hernextice.	ED,
]	Edited a format error in the Current Application Data section, specifically:		P#
]	Edited the Current Application Data section with the actual current number. The applicant was the prior application data; or other	number input	ed by the
]	Added the mandatory heading and subheadings for "Current Application Data".	-	
] .	Edited the "Number of Sequences" field. The applicant spelled out a number ins	tead of using a	an integer.
]	Changed the spelling of a mandatory field (the headings or subheadings), specif	ically:	·
-	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that	at were edited	were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO	s edited:	•
	Corrected subheading placement. All responses must be on the same line as ea applicant placed a response below the subheading, this was moved to its approp	ch subheading riate place.	g. If the
	Inserted colons after headings/subheadings. Headings edited included:		
	Deleted extra, invalid, headings used by an applicant, specifically:		·
	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary in page numbers throughout text; other invalid text, such as		at end of file
	Inserted mandatory headings, specifically:	·	
	Corrected an obvious error in the response, specifically:	REC	SEIVE
	Edited identifiers where upper case is used but lower case is required, or vice ve	ersa.	2 4 2002
	Corrected an error in the Number of Sequences field, specifically:	IECH CEI	NTER 1600/2
-	A "Hard Page Break" code was inserted by the applicant. All occurrences had to	be deleted.	
(Deleted ending stop codon in amino acid sequences and adjusted the "(A)Lengtidue to a Patentin bug). Sequences corrected:	h:* field accord	lingly (error
	Other: Aligned amino numbering in Seq. 16		
			



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/545,199F
DATE: 07/19/2002 P.6
TIME: 13:33:09

Input Set : A:\PTO.DC.txt

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4 <110> APPLICANT: Lowery E., David
 5
         Fuller E., Troy
         Kennedy J., Michael
, 8 <120> TITLE OF INVENTION: Anti-Bacterial Vaccine Compositions
10 <130> FILE REFERENCE: 28341/6227.NCP
12 <140> CURRENT APPLICATION NUMBER: 09/545,199F
13 <141> CURRENT FILING DATE: 2000-04-06
15 <150> PRIOR APPLICATION NUMBER: 60/153,453
16 <151> PRIOR FILING DATE: 1999-09-10
18 <150> PRIOR APPLICATION NUMBER: 60/128,689
19 <151> PRIOR FILING DATE: 1999-04-09
21 <160> NUMBER OF SEQ ID NOS: 165
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25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1112
27 <212> TYPE: DNA
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32 <222> LOCATION: (210)..(1001)
34 <220> FEATURE:
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37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
39 <222> LOCATION: 1099
40 <223> OTHER INFORMATION: n = A or T or G or C
42 <220> FEATURE:
43 <221> NAME/KEY: misc_feature
44 <222> LOCATION: 1104
45 <223> OTHER INFORMATION: n = A or T or G or C
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52 aacaatagtt ttaaacaata ttottooatt ttttataagt aagtacttaa atataaagca 180
54 ttttcataaa tatcaataaa ggattagtt atg gca gca gag ctt aca aca gcg
55
                                   Met Ala Ala Glu Leu Thr Thr Ala
60 gga tat att ggg cac cat tta gca ttc ttg aaa aca ggg gat tct ttc
                                                                      281
61 Gly Tyr Ile Gly His His Leu Ala Phe Leu Lys Thr Gly Asp Ser Phe
                           15
66 tgg cat gtt cat tta gat acc ctt cta ttt tca att att tca ggt gca
67 Trp His Val His Leu Asp Thr Leu Leu Phe Ser Ile Ile Ser Gly Ala
68
  25
                        30
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RAW SEQUENCE LISTING DATE: 07/19/2002 PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07192002\I545199F.raw

7	0	att	ttt	ctt	ttt	gtt	ttt	tca	aaa	gtt	gca	aaa	aaa	gca	acg	ccg	ggt	377
		Ile	Phe	Leu	Phe		Phe	Ser	Lys	Val		Lys	Lys	Ala	Thr	Pro	Gly	
	2					45					50					55		
														gtt				425
	'5 '6	vaı	PLO	ser	ьуs 60	met	GIN	Cys	Pne	041 65	GIU	TTE	мет	Val	-	Trp	TTE	
		ant.	aaa	ato		222	~ = =	22t	++0		aat	aat	aat	cat	70	a++	~~~	473
		-			-		_						_	His	_	-		4/3
	30	пор	GTY	75	Val	цуз	GIU	non	80	1113	Gry	110	пту	85	AIG	Val	GLY	
		cca	tta		tta	act	att	ttc		taa	qta	ttc	att	atg	aat	act	atc	521
				_					_		-			Met		_		
	34		90					95	_	_			100					
8	6	gat	ttg	atc	cca	gta	gat	ttc	cta	cct	caa	tta	gcc	cat	tta	ttt	ggt	569
8	37 .	Asp	Leu	Ile	${\tt Pro}$	Val	Asp	Phe	Leu	Pro	Gln	Leu	Ala	His	Leu	Phe	Gly	
8	8	105					110					115					120	
			_			_	_	_			-	_		agt				617
		Ile	Glu	Tyr	Leu	-	Ala	Val.	Pro	Thr		Asp	Ile	Ser	Gly		Leu	
	2					125					130					135		
														tat				665
		GTÄ	Leu	ser		GTÀ	vaı	Pne	Pne		TTE	тте	Pne	Tyr		TTE	ràs	
	6	+	222	aat	140	204	~~~	+++	a++	145	~~~	+-+	200	ctt	150	aat	+++	712
					_	_			_		_		_	Leu				713
	.00	Der	nys	155		Ser	Сту	FILE	160	_	GIU	тут	1111	165		PLO	FILE	
		aat	cat			r t.t.a	att	cco			tta	aca	ctt			ato	aca	761
					_			-	_					_		_	Thr	, 0 =
	04		170					175					180					
1	06	tta	tta	gca	aaa	cct	gtt	tct	ttg	geg	ttc	cgt	ctt	ttc	ggg	aat	atg	809
1	07	Leu	Leu	ı Ala	Lys	Pro	Val	. Ser	Leu	Ala	Phe	. Arg	Leu	ı Phe	Gly	/ Asn	Met	
1	80.	185					190					195	i				200	
			-		_							-	-	-		_	gca	857
		Tyr	Ala	GLy	Glu			Phe	Ile	Leu			[Va]	. Met	. Tyr		Ala	
	12	+				205					210					215		005
					-				_						-	_	tgg Trp	905
	16	ASII	. ASI	PHE	220		. ASI	. Sét	Met	. Gry 225		Pile	met	. nis	230		ттр	
		act	att	ttc			ctt	ata	att	-		саа	aca	+++			atg	953
																	Met	,,,,
	21			235					240					245				
1	23	atg	ctt	aca	gtg	gtt	tat	ttg	agt	atg	ggt	tat	aac			gaa	cac	1001
																	His	
1	25		250	ı				255					260)		•		
																	acatta	1061
							ac a	acaa	tcat	c gc	atct	gnaa	ttr	ttct	tgc	t		1112
					D NC													
					H: 2													
					PRI		+0	0110	m 1	+00-	da.							
					NCE:	Pas	ceur	втта	mul	COCI	ua							
Т	<i>31</i>	\40	U > 5	LVUE	MCE:	4												

W-->

RAW SEQUENCE LISTING DATE: 07/19/2002
PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07192002\I545199F.raw

138 Met Ala Ala Glu Leu Thr Thr Ala Gly Tyr Ile Gly His His Leu Ala 139 141 Phe Leu Lys Thr Gly Asp Ser Phe Trp His Val His Leu Asp Thr Leu 25 144 Leu Phe Ser Ile Ile Ser Gly Ala Ile Phe Leu Phe Val Phe Ser Lys 40 147 Val Ala Lys Lys Ala Thr Pro Gly Val Pro Ser Lys Met Gln Cys Phe 50 55 150 Val Glu Ile Met Val Asp Trp Ile Asp Gly Ile Val Lys Glu Asn Phe 70 75 153 His Gly Pro Arg His Ala Val Gly Pro Leu Ala Leu Thr Ile Phe Cys 156 Trp Val Phe Ile Met Asn Ala Ile Asp Leu Ile Pro Val Asp Phe Leu 157 100 105 110 159 Pro Gln Leu Ala His Leu Phe Gly Ile Glu Tyr Leu Arg Ala Val Pro 115 120 125 162 Thr Ala Asp Ile Ser Gly Thr Leu Gly Leu Ser Ile Gly Val Phe Phe 135 140 165 Leu Ile Ile Phe Tyr Thr Ile Lys Ser Lys Gly Met Ser Gly Phe Val 150 155 168 Lys Glu Tyr Thr Leu His Pro Phe Asn His Pro Leu Leu Ile Pro Val 165 170 171 Asn Leu Ala Leu Glu Ser Val Thr Leu Leu Ala Lys Pro Val Ser Leu 185 174 Ala Phe Arg Leu Phe Gly Asn Met Tyr Ala Gly Glu Leu Ile Phe Ile 175 195 200 177 Leu Ile Ala Val Met Tyr Met Ala Asn Asn Phe Ala Leu Asn Ser Met 178 215 180 Gly Ile Phe Met His Leu Ala Trp Ala Ile Phe His Ile Leu Val Ile 181 225 230 235 183 Thr Leu Gln Ala Phe Ile Phe Met Met Leu Thr Val Val Tyr Leu Ser 245 250 186 Met Gly Tyr Asn Lys Ala Glu His 187 260 190 <210> SEQ ID NO: 3 191 <211> LENGTH: 1972 192 <212> TYPE: DNA 193 <213> ORGANISM: Pasteurella multocida 195 <220> FEATURE: 196 <221> NAME/KEY: CDS 197 <222> LOCATION: (364)..(1230) 199 <220> FEATURE: 200 <223> OTHER INFORMATION: atpG 202 <400> SEQUENCE: 3 203 agegggeeat ttggeteagt teggettegg attettatga tgeacaegta ageaattate 60 205 acatggtcaa aaagtaactg aattattgaa acaaaaccaa tactctccgt tatctgtagc 120 207 acaacaagca ttagtgttat ttgcagtaga gtttggttac ttagaagaag tggacttaga 180 209 tcgtattggt tcatttgaat cagcactttt agagtatgct aaccataact atgctgattt 240 211 tatgcgtgag ttaacccaat ctggcaatta caatgatgaa attaaagagt cattaaaagg 300 RAW SEQUENCE LISTING DATE: 07/19/2002 PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : A:\PTO.DC.txt

213	cat	tttg	gat a	agcti	tcaa	ag ca	aaaca	agtgo	gte	ggta	agtt	aac	actt	taa a	atgga	agagac	360
						aaa											408
216						Lys											
217		1				5			_		10					15	
219	aqt	aca	caa	aaa	att	act	aaa	qcq	atq	qaa	atq	qtt	qct	qcc	tcq	aaa	456
						Thr											
221				-	20		-			25	-				30	-	
	ato	cat	aaa	acσ	caa	gaa	cac	at.g	tct		t.ca	cac	cct	tat		gaa	504
						Ğlu											-
225		5	-1-	35			5		40			9		45			
227	aca	ata	cqt	aac	qtq	att	aqc	cac	qtt	tcc	aaa	qca	acq	att	qqt	tac	552
						Ile											
229			50					55			-1-		60		1	-1-	
	aaσ	cat.		ttt	t.t.a	gtg	σat.		σaa	σt.a	aaa	aaa		aac	atσ	att	600
						Val	_	_	-	_							
233	1-	65					70	5			-1-	75		1			
	att		tcc	aca	gat.	cgt		ctt	t.at.	aat.	aac		aac	ata	aac	t.t.a	648
						Arg											
237	80					85	0-1		0,10	0-1	90			,		95	
		aaa	act	αta	tta	aat	αаа	atσ	aaa	αаа		aaa	αаа	aaa	gat		696
				-		Asn	_	_		_			_		_	_	
241		-10		, 41	100		014		-10	105			014	2,0	110		
	tcc	att	caa	tta		tta	atc	aat	tet		tct	atc	aac	ttt		caa	744
						Leu											,
245	-	,	0111	115	001	204		011	120		501			125		0111	
	tct	t.t.a	gga		aaa	att	tta	acc		gat	tica	aat	att	•	αat	act	792
						Ile				-					_		, , _
249			130		_10			135	01		501		140	011			
	ccc	tet		σασ	саσ	tta	at.t.		t.ca	at.c	aat.	tet	-	at.t.	σat.	act.	840
			_		_	Leu				_			_		-	-	
253		145					150	U -1				155			F		
	tat		aaa	aaa	σaa	gta		at.t.	ata	t.a.t.	t.t.a		t.a.t.	aac	aaa	ttt	888
						Val	-	_	-			_					
257	_	-1-	-1-	1		165	1			-1-	170		-1-		-1-	175	
		aac	acq	atq	tca	caa	aaσ	cca	σta	tta		aaa	tta	att	cca		936
						Gln	-				-						
261					180		-1-		,	185		-1-			190		
	cca	σaa	tta	gat		gat	gaa	tta	aac		aσa	aaa	caa	att		gat	984
		_		_		Asp	-			-	_			_		-	
265				195		-			200					205	_		
	tat	att	tac		cct	gat	aca	aaa		tta	tta	gat	aat		tta	att	1032
							-		_			_				Val	
269	- 4		210			E		215					220				
	cat	tat		qaa	tct	cag	qtt		caa	qca	qca	qtt		aac	ctt	qct	1080
						Gln	-			_	_	-	_			-	
273	. ,	225					230					235				-	
•	tct		caa	gcc	gct	cga		qtc	qcc	atq	aaa		qca	aca	gat	aac	1128
				-	-	Arg	-	_	_	_		-	_		-		
277		•	•			245					250				-	255	

RAW SEQUENCE LISTING DATE: 07/19/2002 PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : A:\PTO.DC.txt

280	gca ggt Ala Gly		Leu Ile				Leu					Ala		1176
	caa gca Gln Ala	_		_			_		_	-		_	_	1224
	gca att	taaca	275 aaatag	aggatc	ggta a	280 tggca	aact	g ġaa	aaaat	ttgt	285 aca	aatca	atc	1280
	Ala Ile			~~ att		2 424	- can	** > 4	a aa.		a+-a -	+ ~ ~ + /	raatta	1240
	ggtgcgg aatgttg			-		_	-			_		-		
	tgtatcg			-										
	aacccaa													
	gaaccaa													
	ccaccaa													
	atcgact	-					_		_					
	gtcggta													
	tactctg													
	atgaaag							-	-					
			_	_	-	-		-						
) ccaggtaacc gtttacgtgt ggcattaaca ggcttaacta tggcggaaaa attccgtgat 19 2 gaaggtcgtg atgtcttatt cttcgttgat aa												1972	
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324 325	Thr Gln	Lys I	lle Thr 20	Lys A	la Met	Glu 25	Met	Val	Ala	Ala	Ser 30	Lys	Met	
327 328	Arg Lys	Thr 6	Gln Glu	Arg M	et Ser 40	Ser	Ser	Arg	Pro	Tyr 45	Ser	Glu	Thr	
330	Ile Arg	Asn V	/al Ile	Ser H	is Val	Ser	Lys	Ala	Thr	Ile	Gly	Tyr	Lys	
331	50				55				60					
333 334	His Pro	Phe I	Leu Val	Asp A:	rg Glu	Val	Lys	Lys 75	Val	Gly	Met	Ile	Val 80	
336 337	Val Ser	Thr A	Asp Arg 85	Gly L	eu Cys	Gly	Gly 90	Leu	Asn	Val	Asn	Leu 95	Phe	
339	Lys Thr	Val I	Leu Asn	Glu M	et Lys	Glu	Trp	Lys	Glu	Lys	Asp	Val	Ser	
340			L00			105					110			
342	Val Gln	Leu S	Ser Leu	Ile G	ly Ser	Lys	Ser	Ile	Asn	Phe	Phe	Gln	Ser	
343		115			120					125			•	
345 346	Leu Gly		Lys Ile		nr Gln 85	Asp	Ser	Gly	Ile 140	Gly	Asp	Thr	Pro	
348	Ser Val	Glu G	Gln Leu	Ile G	ly Ser	Val.	Asn	$\operatorname{\mathtt{Ser}}$	Met	Ile	Asp	Ala	Tyr	
	145			150				155					160	
	Lys Lys	Gly		Asp Va	ıl Val	Tyr		Val	Tyr	Asn	Lys		Ile	
352			165				170					175		
	Asn Thr			Lys P	o Val		Glu	Lys	Leu	Ile		Leu	Pro	
355		1	L80			185					190			

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/19/2002 PATENT APPLICATION: US/09/545,199F TIME: 13:33:10

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07192002\I545199F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1099,1104 Seq#:27; N Pos. 375,399,423,453 Seq#:27; Xaa Pos. 125,133,141,151 Seq#:28; Xaa Pos. 125,133,141,151 Seq#:35; N Pos. 981,1000,1129,1134,1144,1423,1665,1667 Seq#:35; Xaa Pos. 219,226,269,270,274 Seq#:36; Xaa Pos. 219,226,269,270,274 Seq#:37; N Pos. 98,296,302,928,1007,1740,1808,1816,1820 Seq#:37; Xaa Pos. 33,99,101 Seq#:38; Xaa Pos. 33,99,101 Seq#:39; N Pos. 1839 Seq#:47; N Pos. 3084 Seq#:72; N Pos. 452 Seq#:90; N Pos. 25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63 Seq#:90; N Pos. 65,67,69,71,73,75,77,79,81,83,85,87,89,91,93 Seq#:102; N Pos. 4894 Seq#:102; Xaa Pos. 1632 Seq#:103; Xaa Pos. 1632

VERIFICATION SUMMARYPATENT APPLICATION: **US/09/545,199F**DATE: 07/19/2002 TIME: 13:33:10

Input Set : A:\PTO.DC.txt

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L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1061
L:3841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:337
L:3842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:385
L:3845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:385
L:3846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:433
L:3849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:433
L:3850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:481
L:3981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:112
L:3984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:128
L:3987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:144
L:5416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:975
L:5417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1023 L:5428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1119
L:5429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1167
L:5444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1390
L:5452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1630
L:5526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:208
L:5529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:224
L:5535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:256
L:5538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:272
L:5612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:97
L:5613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:145
L:5628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:289
L:5629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:337
L:5661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:889
L:5663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:949
L:5689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:1729
L:5691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:1789
L:5728\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:32
L:5740~M:341~W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:96
L:5858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:1806
L:6790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:3076
L\!:\!9359 M\!:\!341 W\!: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:420
L:11243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
L:11245 \ M:341 \ W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:60
L:11978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:4848
L:11979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:4896
L:12306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:1616
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STATISTICS SUMMARY

DATE: 07/19/2002

PATENT APPLICATION: US/09/545,199F

TIME: 13:33:10

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07192002\I545199F.raw

Application Serial Number: US/09/545,199F

Alpha or Numeric: Numeric

Application Class:

Application File Date: 04-06-2000

Art Unit: 1600

Software Application: PatentIN2.0 Total Number of Sequences: 165

Total Nucleotides: 169095 Total Amino Acids: 24948

Number of Errors: 0 Number of Warnings: 38 Number of Corrections: 0

MESSAGE SUMMARY

341 W: 38 ((46) "n" or "Xaa" used)

E- Edited